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EUROPEAN PATENT APPLICATION

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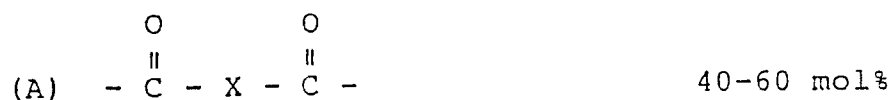
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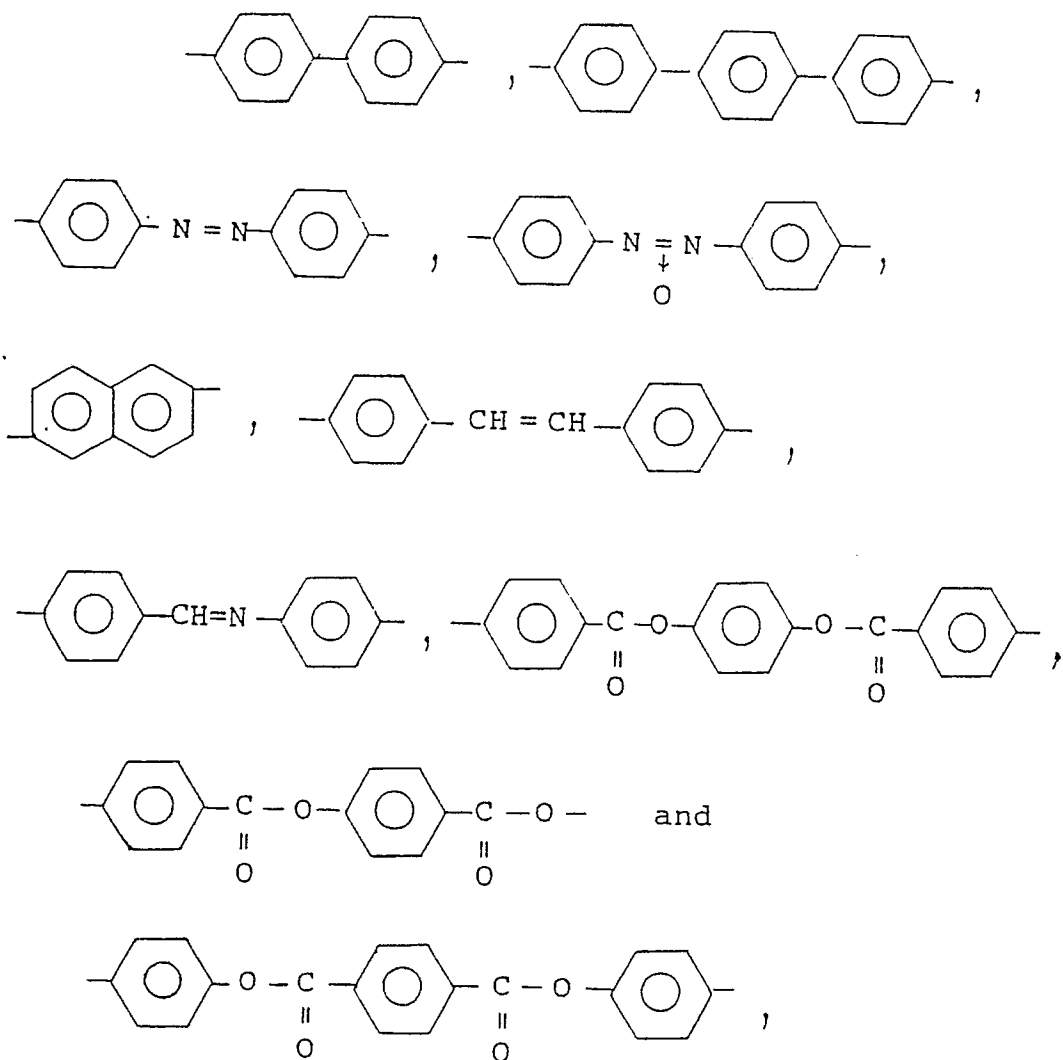
54 **Nonlinear optical materials.**

57 A nonlinear optical material having a high nonlinear optical constant useful for frequency doubler of laser beam which comprises a chiral smectic C liquid crystalline polyester consisting essentially of the structural units having the general formulae (A), (B) and (C);



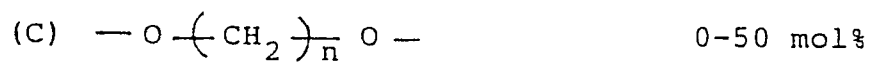
Wherein X is a structural unit selected from the group consisting of

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(B) - O - Y - O - 1-60 mol%

Wherein Y is a group having at least one optically active carbon and the total carbon number of Y is 3-12.



wherein n is an integer of 2-10.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
P,X	EP-A-0 306 339 (NIPPON OIL) * Page 4, lines 5-54; page 5, lines 3-8; example 1; claims 1-5 *	1,5,6,7 ,8,9	G 02 F 1/35 C 09 K 19/38 C 07 L 67/00
Y	---	10	
Y	DERWENT FILE SUPPLIER, WPIL; & JP-A-1 090 414 (IDEMITSU KOSAN) * Whole abstract *	1,4	
Y	---		
Y	EP-A-0 232 138 (BRITISH PETROLEUM) * Column 1, lines 38-63; column 2, lines 1-10; claims 1,3,4,6 *	1,4	
D,Y	MACROMOLECULES, vol. 15, 1982, pages 1385-1389, American Chemical Society; G.R. MEREDITH et al.: "Optical and nonlinear optical characterization of molecularly doped thermotropic liquid crystalline polymers" * Page 1385, right-hand column; page 1386, left-hand column *	1,4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 09 K 19 G 02 F 1/35
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-12-1990	Examiner BOULON A.F.J.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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